Series A and B μ POWER^M 1.5 Watts 24-Lead DIP Low Noise Fully Regulated DC-DC Converters

Features

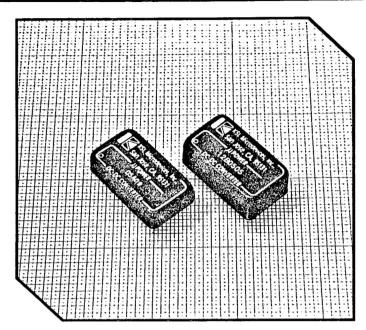
- Thick-film hybrid circuit
- Surface mount technology *
- Up to 1.5 watts output power
- High power density
- Excellent regulation
- 24-lead DIP compatible package
- High input/output isolation
- Short circuit protection
- Low output ripple & noise
- Single or dual outputs
- High MTBF
- 100% burned-in and tested
- Metal case shielding
- Vacuum encapsulated potting

General Specifications

- Input Voltage Range: ±10% at nominal
- Output Voltage Tolerance: ± ! % at nominal
- Input Reflected Ripple: 1% of Vin max.
- Line Regulation: ±.02% for ±10% line change
- Load Regulation: .05% (10% to 100% load)
- Output Ripple & Noise: 10mV p-p
- Input/Output Isolation: 150MΩ500VDC min.
- Short Circuit Protection: current limiting
- Efficiency: 60% @ nominal voltage
- Transient Response: Less than 10μsec.
- MTBF: 340,000 hours
- Operating Temperature: -25°C to +70°C
- Storage Temperature: -55°C to +70°C
- Temperature Coefficient: 100ppm/°C
- Burn-In: 70°C for 4 hours and tested
- Long Term Stability: 0.4%/khours

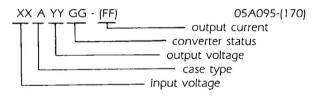
Special Options

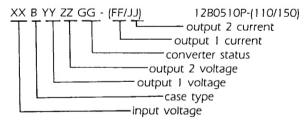
- Case: EMI/RF Continuous Shielding Package Six-sided enclosure grounded
- Stabilization Bake: MIL-STD-883B, method 1008.2 24 hours at +125°C
- Burn-In: MIL-STD-883B, method 1015.4 96 hours at +70°C case temperature
- Temperature Cycle: MIL-STD-883B, method 1010.5 - 55°C/+ 125°C 10 cycles minimum
- Thermal Shock: MIL-STD-883B, method 1011.4 - 55°C/5 minutes, + 125°C/5 minutes



Part Number — Custom Designs

KSL μ POWER converters are used in a wide variety of special custom design applications where alternate voltages, currents, pin-outs or multiple outputs are reauired.





Converter Status

- U: Unregulated R: Regulated
- C: Custom circuit
- P: Special pin-outs
- S: Special specs J: Hi-Rel screened
- T: Triple outputs
- Q: Quad outputs

Applications

- LAN Networks
- ECL Applications
- Instrumentation
- Medical electronics
- Robotic control

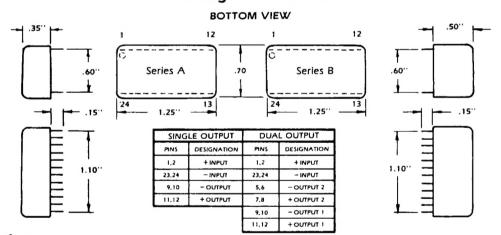
*Specifications subject to change without notice

Selection Chart (Maximum Rating)

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	LOAD CURRENT*	MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	LOAD CURRENT*
05A05 05A09 05A12 05A15 05A24 05A28	+ / - 5V + / - 5V	+/- 5V +/- 9V +/- 12V +/- 15V +/- 24V +/- 28V	300 mA 160 mA 120 mA 100 mA 60 mA 50 mA	0580505 0580909 0581212 0581515 0582424 0582828	+/-5V +/-5V +/-5V +/-5V +/-5V +/-5V	± 5V ± 9V ± 12V ± 15V ± 24V ± 28V	±150 mA ± 80 mA ± 60 mA ± 50 mA ± 30 mA ± 25 mA
12A05 12A09 12A12 12A15 12A24 12A28	+/-12V +/-12V +/-12V +/-12V +/-12V +/-12V	+/- 5V +/- 9V +/- 12V +/- 15V +/- 24V +/- 28V	300 mA 160 mA 120 mA 100 mA 60 mA 50 mA	1280505 1280909 1281212 1281515 1282424 1282828	+/-12V +/-12V +/-12V +/-12V +/-12V +/-12V	± 5V ± 9V ± 12V ± 15V ± 24V ± 28V	± 150 mA ± 80 mA ± 60 mA ± 50 mA ± 30 mA ± 25 mA
15A05 15A09 15A12 15A15 15A24 15A28	+/-J5V +/-15V +/-15V +/-15V +/-15V	+/- 5V +/- 9V +/-12V +/-15V +/-24V +/-28V	300 mA 160 mA 120 mA 100 mA 60 mA 50 mA	1580505 1580909 1581212 1581515 1582424 1582828	+/-15V +/-15V +/-15V +/-15V +/-15V +/-15V	± 5V ± 9V ± 12V ± 15V ± 24V ± 28V	± 150 mA ± 80 mA ± 60 mA ± 50 mA ± 30 mA ± 25 mA
24A05 24A09 24A12 24A15 24A24 24A28	+/-24V +/-24V +/-24V +/-24V +/-24V	+/- 5V +/- 9V +/- 12V +/- 15V +/- 24V +/- 28V	300 mA 160 mA 120 mA 100 mA 60 mA 50 mA	2480505 2480909 2481212 2481515 2482424 2482828	+/- 24V +/- 24V +/- 24V +/- 24V +/- 24V +/- 24V	± 5V ± 9V ± 12V ± 15V ± 24V ± 28V	± 150 mA ± 80 mA ± 60 mA ± 50 mA ± 30 mA ± 25 mA
48A05 48A09 48A12 48A15 48A24 48A28	+/-48V +/-48V +/-48V +/-48V +/-48V	+/- 5V +/- 9V +/-12V +/-15V +/-24V +/-28V	300 mA 160 mA 120 mA 100 mA 60 mA 50 mA	4880505 4880909 4881212 4881515 4882424 4882828	+!-48V +!-48V +!-48V +!-48V +!-48V +!-48V	± 5V ± 9V ± 12V ± 15V ± 24V ± 28V	± 150 mA ± 80 mA ± 60 mA ± 50 mA ± 30 mA ± 25 mA

*Current must be specified.

Package Dimensions



Design Notes

